TEXAS A&M UNIVERSITY
SAN ANTONIO

Energy Management Report

November 2017

TEXAS A&M UNIVERSITY-SAN ANTONIO

A. The extent to which the agency has met the percentage goal it established for reducing its usage of electricity, gasoline and natural gas:

Texas A&M University - San Antonio is committed to the conservation of energy through many initiatives that allow the structures to function at their best. TAMUSA has shown positive reductions in energy consumption by equipping new facilities with state of the art systems that make the buildings more energy efficient. One example of these initiatives is occupancy sensors to control light fixtures to reduce electricity use, as well as tied to the VAV boxes to control the conditioned air in classrooms, offices spaces, corridors and other spaces in the building. When the occupancy sensors activate due to personnel activity in the room, the lighting comes on and the VAV boxes begin to provide conditioned air to the space. When the sensor disengages due to inactivity it turns off the lighting and shuts down the VAV boxes and the cooling system. The space remains dormant until activated once again.

Utility consumption building profiles are generated weekly and reviewed to insure buildings are operating as designed. And, monthly campus utility consumption and costs are reviewed to insure energy conservation initiatives are obtaining expected results. Energy conservation initiatives have reduced the main campus source Energy Use Index (EUI) from 203.7 mBtu per square foot in June 2013 to 176.6 mBtu per square foot in July 2017 for a 13% reduction in energy usage per square foot.

B. The steps the agency may take to increase the percentage goal for reducing its usage of electricity, gasoline, and natural gas:

Texas A&M University - San Antonio is very aggressive in implementing programs that lead to the conservation of energy. Along with the item mentioned above with occupancy sensors, TAMUSA has a computerized Energy Management System that allows constant monitoring of the buildings to insure there has not been a malfunction that will increase energy usage. This could be as simple as a malfunctioning thermostat that causes an area to over cool or over heat.

Construction of a new STEM building is expected to be completed by the fall of 2018. Emphasis has been placed on energy efficiency through the planning and construction phases.

C. Any additional ideas the agency has for reducing energy expenditures related to facilities:

Texas A&M University - San Antonio is planning to construct a power plant within the next five years and allow for the reduction of commercial energy usage. While this is in the future, it allows the university to start becoming more independent and be able to control its expenditures in a more effective way.

D. Any additional ideas the agency has to minimize fuel usage in all vehicles and equipment used by the agency:

Texas A&M University - San Antonio University Police has the largest number of vehicles. TAMUSA has closed a satellite campus that will reduce the University Police's travel requirements. The facility vehicles are maintained at the Main Campus and typically will not be used over 300 miles a month. Facility Services continues to plan their trips to minimize usage of vehicles.

	Gasoline (Gallons)
FY16	4,226
FY17	5,712
% Increase (Decrease)	35.16%